

The 4th International Workshop on Independent Verification & Validation of Software http://www.nasa.gov/centers/ivv/workshops/index.html

West Virginia University's Erickson Alumni Center Morgantown, West Virginia, USA

September 11-13, 2012

	TOPICS
Feasibility studies	Interface agents
V&V of early lifecycle artifacts	Mobile agents
Reliability Engineering	Mobile Systems
	Autonomic computing
Service oriented requirements engineering	Adaptive Systems
Requirements Engineering	Enterprise Software, Middleware, and Tools
Software dependability	Service-centric software engineering
Software Quality	Embedded and Ubiquitous Software Engineering
Requirements quality	Knowledge Acquisition
	Human-Computer Interaction
Agent architectures, ontologies, languages and protocols	Pervasive Computing
Multi-agent systems	Swarm intelligence
ntegrity, Security, and Fault Tolerance	Commercial Space
Service oriented architectures	Software Safety
Partitioned systems	Software Security
Fault Tolerance	Robotic systems
	Automotive
Off-nominal operations	DOD
Documenting critical systems	FAA
Anomaly work-around	Security
System recovery	Law Enforcement
	Power Generation and Distribution
Static and dynamic testing	Software based hazard causes, contributors, and controls
Cost effective software based test environments	Security threats and risks
Certified Test Environments	Reactive Systems
Software Test Programs	Complex algorithms
Test Oracles	Disaster Recovery planning
Verifying scripts	
Operational readiness	Software Reuse
	Generated Software
Knowledge Representation and Retrieval	Static Analysis
Knowledge Engineering Tools and Techniques	
Knowledge Visualization	Software Interfaces
Data visualization	Data integrity
Learning Software Organization	
Software Assurance	NASA systems engineering processes
Software Domain Modeling and Meta-Modeling	Computing the value of IV&V
V&V as an explicit risk reduction strategy	Management and Planning of Independent Verification and Validation
Architecture frameworks as applied to NASA systems	Issue and Risk Tracking
Applying social media to IV&V	Criticality Analysis
Software Engineering Decision Support	
Software Maintenance and Evolution	Design completeness, correctness
Software Process Modeling	Designing for Performance
Application of Data Mining tools to support IV&V	Strigening for Fortermano
Modeling and simulation	WORKSHOP SITE
New technologies for IV&V	
Comonguo foi fra t	The IV&V Annual Workshop will be held at the WVU Erickson Alumni Center in Morgantown, West Virginia, USA, http://alumni.www.edu/eac
Agent-based software engineering	Center in Morgantown, West Virginia, USA. http://alumni.wvu.edu/eac
Artificial Intelligence Approaches to Software Engineering	INFORMATION FOR AUTHORS
Component-Based Software Engineering	INFORMATION FOR AUTHORS Abstracts must be written in English. An electronic (BDE or MC Word former)
Automated Software Specification	Abstracts must be written in English. An electronic (PDF or MS Word format)
Automated Software Design and Synthesis	should be submitted via email to Sadie.E.Downs@nasa.gov.
Computer-Supported Cooperative Work	IMBODTANT DATES
	IMPORTANT DATES
Measurement and Empirical Software Engineering	April 15, 2012 Abstract submission due (Updated March 6, 201
Programming Languages and Software Engineering	May 2, 2012 Notification of Acceptance
Patterns and Frameworks	June 1, 2012 Attendee Registration opens
Reflection and Metadata Approaches	July 1, 2012 Sponsorship registration deadline
Program Understanding	August 31, 2012 Attendee Registration closes
Fransitioning NASA experience to non-space domains	
The future of software development and its impact on IV&V	POINTS OF CONTACT
Software product lines	Annual IV&V Workshop: Lisa Downs, sadie.e.downs@nasa.gov
mproving effectiveness and efficiency of IV&V methods	Registration: Ashley D'Annunzio, ashley.t.dannunzio@ivv.nasa.gov
Γeam-based approach to performing IV&V of systems	Corporate Sponsorships: Bree Deren-Layton, bree.a.layton@ivv.nasa.gov